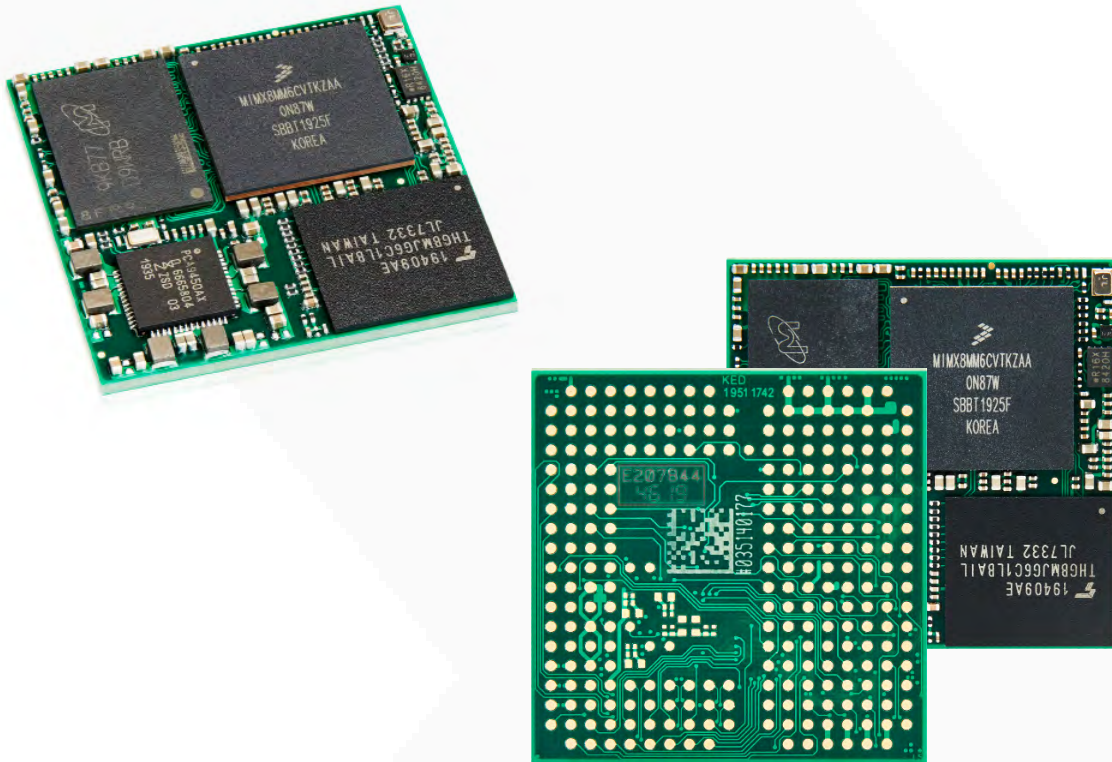


# SL i.MX8M Mini SoM-Line



## Quad Core with 1.6 GHz, eMMC and DDR4 Memory on just 30 x 30 mm

- NXP i.MX8M Mini, 4x Arm® Cortex®-A53 @1.6 GHz and 1x Arm® Cortex-M4 @400 MHz
- 2D GPU, 3D GPU
- Memory expansion
- Pre-installed embedded Linux operating system incl. all drivers for communication and LCD/touch

FUNCTION		STANDARD	OPTIONS
MICROPROCESSOR	CPU	NXP i.MX8M Mini, 4x Arm® Cortex®-A53 @1.6 GHz, 1x Arm® Cortex®-M4 @400 MHz, 2D GPU and 3D GPU	
MEMORY	LPDDR4-RAM NOR-FLASH EMMC	1 GByte 2 MByte 4 GByte	up to 4 GByte  up to 128 GByte
COMMUNICATION	ETHERNET USB I/O	1x 1 Gbit/s 2x USB 2.0 OTG 4x UART 4x I <sup>2</sup> C, 2x SPI, 27x GPIO, 3x PWM, 1x PCIe, 1x SAI, 1x QSPI 2x SDIO 3.0, 1x 4 bit, 1x 8 bit	
DISPLAY / TOUCH	LCD INTERFACE CAMERA INTERFACE	1x MIPI DSI (4-lane) up to 1920 x 1080 @60fps 1x MIPI CSI (4-lane)	
OTHER	POWER SUPPLY POWER CONSUMPTION  TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR FOOTPRINT	5 V DC ±5 % Linux running < 1 W max. < 3.5 W -25 °C ... +85 °C Embedded Linux (Yocto Distribution) 30 x 30 mm 267 Pin / RM 1.5 mm	
SECURITY		HAB Secure Boot, TrustZone, TRNG, RSA up to 4096, AES-128/192/256, 3DES, ARC4, MD-5, SHA up to 256, ECC, Secure JTAG	

## Product Highlights

Our system-on-module SoM SL i.MX8M Mini offers maximum performance on a minimum footprint for use in demanding 3D graphics, wide-ranging communication tasks and computing-intensive applications. The cutting-edge processor (4x Cortex®-A53) and memory technology (DDR4) can be deployed easily and rapidly for custom board and application development.

Equipped with state-of-the-art encryption technologies, secure

boot and further security features, the SoM satisfies the most exacting security requirements. In combination with the latest wireless technologies and modern software architectures, it is the ideal building block for developing secure devices in large-scale IoT networks.

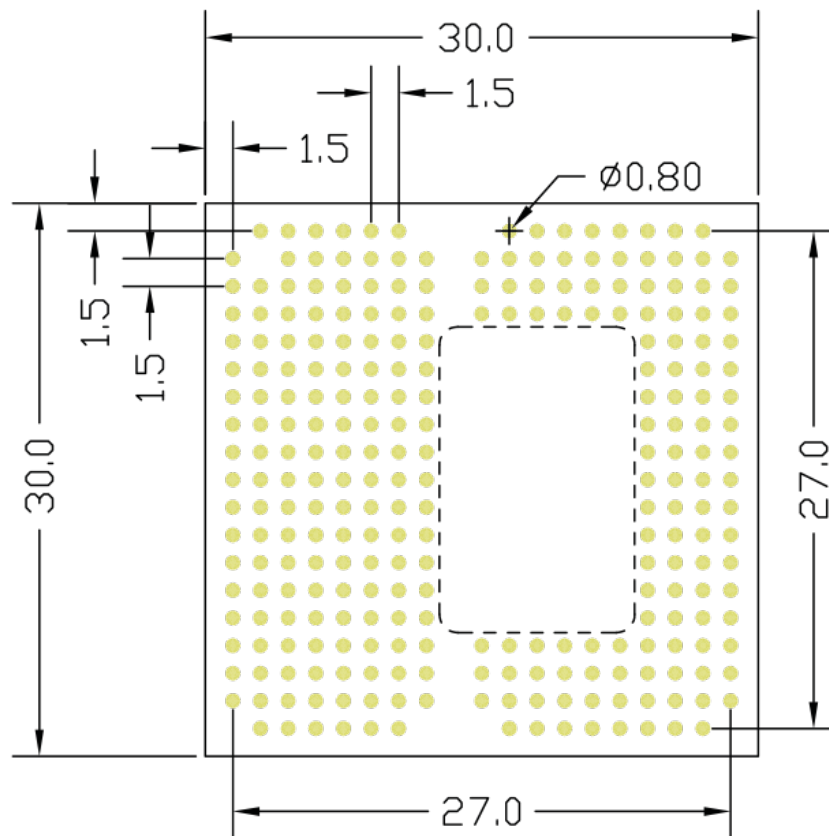
High performance, compact design and low cost make the SoM SL i.MX8M Mini an excellent basis for proprietary baseboard development. Ready2Use: Thanks to the included Linux Board Support Package and full development environment, the system

### Client Benefits

- Quick and easy realization of complex processor solutions
- Complex pin multiplexing and sophisticated DDR4 RAM layout already implemented
- Short Time to Market
- Requires only one voltage supply (5 V)

### Applications

- IoT/Industry 4.0
- Automation and control technology
- HMI, Touch Panel
- Consistent processor module for wide range of baseboard families
- Minimum-footprint applications



## Products SoM-Line

PRODUCTNAME	ARTICLE NO.	OPTIONS
SL i.MX8M Mini Quad 1 GB/8 GB	40099 175	-
SL i.MX8M Mini Quad 2 GB/8 GB	40099 185	-
SL i.MX8M Mini Quad 4 GB/32 GB	40099 212	-



PRODUCTNAME	ARTICLE NO.	OPTIONS
BL i.MX8M Mini Quad 1 GB/8 GB	40099 187	-
BL i.MX8M Mini Quad 2 GB/8 GB	Auf Anfrage	-
BL i.MX8M Mini Quad 4 GB/32 GB	40099 220	-
AC Connector Set BL/AL/DL	30099 003	Zusätzlich zum BL i.MX8M Mini QUAD zu bestellen
USB-UART Adapter	40099 101	-



# Products Board-Line

PRODUCTNAME	ARTICLE NO.	OPTIONS
DK i.MX8M Mini Quad 1 GB/8 GB	50099 059	BL i.MX8M Mini Quad 1 GB/8 GB, Netzgerät, Kabel, Debug-Adapter
DK 7" i.MX8M Mini Quad 1 GB/8 GB	50099 063	BL i.MX8M Mini Quad 1 GB/8 GB, Touch Display, Netzgerät, Kabel, Debug-Adapter
DK i.MX8M Mini Quad 4 GB/32 GB	50099 065	BL i.MX8M Mini Quad 4 GB/32 GB, Netzgerät, Kabel, Debug-Adapter
DK 7" i.MX8M Mini Quad 4 GB/32 GB	50099 064	BL i.MX8M Mini Quad 4 GB/32 GB, Touch Display, Netzgerät, Kabel, Debug-Adapter





## About Kontron

Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: [www.kontron.com](http://www.kontron.com)

## About Kontron Electronics

Kontron Electronics GmbH is a full-service provider in the electronics industry, offering comprehensive services in development, rapid prototyping, and manufacturing. The company's portfolio includes proprietary and customer-specific products, development and engineering services for complex electronic components, modules, and systems, as well as production and assembly services for complete assemblies. The company is part of the Kontron AG technology group.

For more information please visit: [www.kontron-electronics.com](http://www.kontron-electronics.com)

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